

Amendments to the Claims:

Please amend the claims as follows:

Claim 1. (Currently amended): An implantable, flat-woven multi-petaled graft comprising:

a hollow tubular woven portion having opposed first and second tubular ends, said woven portion having a number of warp yarns interlaced with a number of fill yarns in a flat-woven tubular woven pattern to define a flat-woven tubular diameter, and

a bulbous woven portion having opposed first and second ends, the first bulbous end having a greater number of warp yarns interlaced with said fill yarns in a flat-woven tubular bulbous pattern contiguously woven from said second tubular end to provide a seamless woven, wherein the greater number of warp yarns are threadingly engaged with said fill yarns to define a flat-woven bulbous diameter;

wherein said second end of said bulbous portion is scalloped with a plurality of petal-like projections seamlessly woven from said first bulbous end;

wherein the petal-like projections are non-connected, non-tubular, contoured, lobate-shaped woven sheets.

Claim 2. (Original): The graft of claim 1, wherein there are three petal-like projections.

Claim 3. (Original): The graft of claim 1, wherein said tubular portion is circumferentially crimped.

Claim 4. (Original): The graft of claim 1, wherein said petal-like projections are circumferentially crimped.

Claim 5. (Original): The graft of claim 1, wherein said petal-like projections have edges that are ravel-resistant.

Claim 6. (Original): The graft of claim 5, wherein said ravel resistant edges are formed by fusingly sealing said edges.

Claim 7. (Original): The graft of claim 6, wherein said edges include heat-fusible yarns.

Claim 8. (Original): The graft of claim 6, wherein said edges include an increased yarn density as compared to non-edge portions of said projections.

Claim 9. (Canceled)

Claim 10. (Original): The graft of claim 1, wherein said petal-like projections are contoured by threadingly engaging said additional number of warp yarns from said fill yarns.

Claim 11. (Original): The graft of claim 1, wherein said second end of said bulbous portion is contoured by threadingly disengaging said additional number of warp yarns from said fill yarns.

Claim 12. (Original): The graft of claim 1, further including a mechanical or tissue heart valve, wherein said woven petal-like projections are securably attached to said valve.

Claim 13. (Original): The graft of claim 1 wherein said petal-like projections are contoured to mimic the shape of the sinuses of Valsalva.

Claim 14. (Original): The graft of claim 5, wherein said edges are woven selvages.

Applicant: Kujawski, D.
Application No.: 10/823,061
Amendment and Response dated November 20, 2007
Reply to Final Office Action of August 23, 2007
Docket No.: 760-183
Page 5

Claim 15. (Original): The graft of claim 5, where said edges are cut from said bulbous second end.

Claim 16. (Original): The graft of claim 15, wherein said edges are ultrasonically cut from said bulbous second end.

Claim 17. (Original): The graft of claim 16, wherein said edges are ultrasonically sealed by fusing yarns disposed at said edges.

Claim 18. (Original): The implantable graft of claim 1, wherein said tubular woven pattern and said bulbous woven pattern are selected from the group consisting of a plain weave, a basket weave, a twill weave, a velour weave, a double velour weave, a satin weave, a terry weave, and combinations thereof.

Claim 19. (Original): The implantable graft of claim 1, wherein said warp yarns and said fill yarns include materials selected from the group consisting of polyester, polypropylene, polyethylene, polyurethane, polytetrafluoroethylene and combinations thereof.

Claim 20. (Original): The implantable graft of claim 1, wherein said warp yarns are single ply, 70 denier, 54 filament, twisted flat polyester; double ply, 40 denier, 27 filament, twisted set polyester; or combinations thereof.

Claim 21. (Original): The implantable graft of claim 1, wherein said fill yarns are single ply, 70 denier, 54 filament, twisted flat polyester; double ply, 40 denier, 27 filament, twisted set polyester; or combinations thereof.

Claim 22. (Withdrawn): A method for weaving a graft comprising:
weaving a first flat-woven tubular section having opposed open ends and having a number of warp yarns and a number of fill yarns interlaced in a woven pattern to define a first flat-woven diameter;
providing additional warp yarns;
weaving said additional warp yarns into a woven pattern with said number of fill yarns at one of said open ends of said first tubular section to define a bulbous woven section having a second flat-woven diameter, the second diameter being greater than the first diameter; and
scalloping said bulbous woven section to provide a multi-petaled woven end.

Claim 23. (Withdrawn): The method of claim 22, wherein said woven patterns of said first tubular end and of said bulbous section are selected from the group consisting of a plain weave, a basket weave, a twill weave, a velour weave, a double velour weave, a satin weave, a terry weave, and combinations thereof.

Claim 24. (Withdrawn): The method of claim 22, wherein said warp yarns and said fill yarns include materials selected from the group consisting of polyester, polypropylene, polyethylene, polyurethane, polytetrafluoroethylene and combinations thereof.

Claim 25. (Withdrawn): The method of claim 22, wherein said warp yarns are single ply, 70 denier, 54 filament, twisted flat polyester; double ply, 40 denier, 27 filament, twisted set polyester; or combinations thereof.

Claim 26. (Withdrawn): The method of claim 22, wherein said fill yarns are single ply, 70 denier, 54 filament, twisted flat polyester; double ply, 40 denier, 27 filament, twisted set polyester; or combinations thereof.

Claim 27. (Withdrawn): The method of claim 22, wherein the step of step of scalloping said bulbous end further comprises:

cutting said bulbous woven portion along longitudinal portions to define edges of a plurality of petal-like projections.

Claim 28. (Withdrawn): The method of claim 27, wherein said cutting is ultrasonic cutting.

Claim 29. (Withdrawn): The method of claim 22, wherein the step of scalloping said bulbous end further comprises:
seamlessly weaving a plurality of petal-like projections extending from said bulbous end.

Claim 30. (Withdrawn): The method of claim 29, further including weaving selvages to define woven edges of said petal-like projections.

Claim 31. (Withdrawn): The method of claim 22, further including radially crimping said woven tubular and said woven bulbous sections.

Claim 32. (Withdrawn): The method of claim 31, further including radially crimping said petal-like projections.

Claim 33. (Withdrawn): The method of claim 22, further comprising the steps of:
providing a mechanical or tissue heart valve; and
attaching said woven petal-like projections to said valve.

Applicant: Kujawski, D.
Application No.: 10/823,061
Amendment and Response dated November 20, 2007
Reply to Final Office Action of August 23, 2007
Docket No.: 760-183
Page 8

Claim 34. (Currently amended): An implantable prosthesis comprising:
a hollow tubular woven portion having opposed first and second tubular ends, said woven portion having a number of warp yarns interlaced with a number of fill yarns in a flat-woven tubular woven pattern to define a flat-woven tubular diameter; and
a plurality of non-tubular woven projections seamlessly transitioned from said second tubular end;
wherein the non-tubular woven projections are non-connected, contoured, lobate-shaped woven sheets.

Claim 35. (Canceled)

Claim 36. (Original): The implantable graft of claim 34, wherein said non-tubular projections are petal shaped.

Claim 37. (Previously presented): The implantable graft of claim 1, wherein said bulbous woven section is hemispherically shaped.